

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

SACHTOKLAR®

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SACHTOKLAR®

Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

For more detailed information regarding the Identified Uses, see Exposure Scenarios Water treatment in industrial and professional use

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Feralco Deutschland GmbH Groβe Drakenburger Straβe 93-97 D-31582 Nienburg / Weser **2** +49 50 21 98 84 70 **4** +49 50 21 98 84 81 Info.de@feralco.com

1.4. Emergency telephone number

DE: Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern und Sachsen-Anhalt sowie der Freistaaten Sachsen und Thüringen (GGIZ): +49 (0)361 73 07 30 (24 Std/24 Std)

GB: +44 (0)18 65 40 73 33 (24h/24h)

NL: Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 (0)88 755 8000 (24u/24u) (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen) (Only for the purpose of informing medical personnel in cases of acute intoxications)

BE: Antigifcentrum/Centre Antipoisons: +32 (0)70 245 245 (24u/24u)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Met. Corr.	category 1	H290: May be corrosive to metals.
Eye Irrit.	category 2	H319: Causes serious eye irritation.

2.2. Label elements



Signal word Warning H-statements

H290 May be corrosive to metals.
H319 Causes serious eye irritation.

P-statements

P280 Wear eye protection.

P264 Wash hands thoroughly after handling. P234 Keep only in original packaging.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P406 Store in corrosion-resistant container or in container with a resistant inner liner.

2.3. Other hazards

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be © BIG vzw

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378-18654-032-en

1/10



The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
aluminumchloride hydroxide sulfate	39290-78-3	20%	Met. Corr. 1; H290	(1)(2)	Constituent	
01-2119531540-51	254-400-7	<c<40%< td=""><td>Eye Irrit. 2; H319</td><td></td><td></td><td></td></c<40%<>	Eye Irrit. 2; H319			

- (1) For H- and EUH-statements in full: see section 16
- (2) Substance with a Community workplace exposure limit
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Tingling/irritation of the skin. Dry skin.

After eye contact

Irritation of the eye tissue. Redness of the eye tissue. Visual disturbances.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, sulphur oxides) and formation of metal oxides.

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Corrosion-proof appliances.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material sand, earth, vermiculite. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Remove contaminated clothing immediately. Keep container tightly closed. Use corrosionproof equipment.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 25 °C. Meet the legal requirements. Store in a cool area. Store in a dry area. Keep out of direct sunlight.

7.2.2 Keep away from:

Heat sources, oxidizing agents, metals.

7.2.3 Suitable packaging material:

Polyethylene, corrosion-proof.

7.2.4 Non suitable packaging material:

Metal.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer. For more detailed information regarding the Identified Uses, see Exposure Scenarios.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

0		
Aluminium (sels solubles) (en Al)	Time-weighted average exposure limit 8 h	2 mg/m ³
France		
Aluminium (sels solubles)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	2 mg/m³
ик		
Aluminium salts, soluble	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	2 mg/m³

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Aluminum & Compounds (as Al)	NIOSH	7013

$\bf 8.1.3$ Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

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aluminumchloride hydroxide sulfate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	44.5 mg/m ³	
	Long-term systemic effects dermal	12.6 mg/kg bw/day	

DNEL/DMEL - General population

aluminumchloride hydroxide sulfate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	10.9 mg/m³	
	Long-term systemic effects dermal	6.3 mg/kg bw/day	
	Long-term systemic effects oral	6.31 mg/m³	

<u>PNEC</u>

aluminumchloride hydroxide sulfate

Compartments	Value	Remark
Fresh water	0.025 mg/l	
Fresh water (intermittent releases)	0.074 mg/l	
Marine water	0.003 mg/l	
STP	100 mg/l	
Fresh water sediment	3.736 mg/kg sediment dw	
Marine water sediment	3.736 mg/kg sediment dw	
Soil	4.94 mg/kg soil dw	
Oral	8.24 mg/kg food	

8.1.5 Control banding

Not applicable

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type B at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

	Measured breakthrough time	Thickness	Protection index	Remark
chloroprene rubber		> 0.65 mm		Excellent resistance
neoprene		> 0.65 mm		Excellent resistance

c) Eye protection:

Safety glasses (EN 166). Safety goggles with side shields (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Odourless
Odour threshold	Not applicable
Colour	Colourless
Translucency	Clear
Particle size	Not applicable (liquid)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	5 mPa.s - 20 mPa.s ; 20 °C
Kinematic viscosity	12.4 mm²/s - 21.4 mm²/s
Melting point	-12 °C10 °C
Boiling point	> 100 °C
Relative vapour density	No data available in the literature
Vapour pressure	22 hPa
Solubility	Water ; soluble
Relative density	1.2 - 1.3
Absolute density	1200 kg/m³ - 1300 kg/m³
Decomposition temperature	No data available in the literature

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Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
На	2 - 3

9.2. Other information

No data available

SECTION 10: Stability and reactivity

Heating increases the fire hazard. Acid reaction. May be corrosive to metals.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May be corrosive to metals. Reacts with (some) metals: release of highly flammable gases/vapours. Reacts violently with (some) bases and with (strong) oxidizers.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

10.5. Incompatible materials

Oxidizing agents, metals.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, sulphur oxides) and formation of metal oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

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Route of exposu	re Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		> 2000 mg/kg bw		Rat	Calculated value	
Dermal	LD50		> 2000 mg/kg bw		Rat	Calculated value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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No (test)data on the mixture available

Classification is based on the relevant ingredients

aluminumchloride hydroxide sulfate

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	

Classification of this substance is debatable as it does not correspond to the conclusion from the test

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

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No (test)data on the mixture available

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Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available Judgement is based on the relevant ingredients

Mutagenicity (in vivo)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Wate

Biodegradability: not applicable

12.3. Bioaccumulative potential

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

aluminumchloride hydroxide sulfate

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

Conclusion

 $Does\ not\ contain\ bioaccumulative\ component(s)$

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12.4. Mobility in soil

No (test)data on mobility of the component(s) available

12.5. Results of PBT and vPvB assessment

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Groundwate

Groundwater pollutant

Water ecotoxicity pH

pH shift

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. The waste code must be assigned by the user, preferably in consultation with the (environmental) authorities concerned.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

UN number	3264
4.2. UN proper shipping name	3204
Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (aluminumchloride hydroxide sulfate)
4.3. Transport hazard class(es)	
Hazard identification number	80
Class	8
Classification code	C1
.4.4. Packing group	
Packing group	III
Labels	8
.4.5. Environmental hazards	•
Environmentally hazardous substance mark	no
.4.6. Special precautions for user	
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)
Tunnel restriction code	(E)

Rail (RID)

14.1. UN number						
UN number	3264					
14.2. UN proper shipping name						
Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (aluminumchloride					
	hydroxide sulfate)					
14.3. Transport hazard class(es)						
Hazard identification number	80					

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ification code Eking group Ing group Is Ivironmental hazards Ivironmentally hazardous substance mark Ivironmentally natardous substance mark Ivironmentally hazardous substance mark Ivironmental	8
king group ng group s vironmental hazards onmentally hazardous substance mark ecial precautions for user al provisions ed quantities	
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	hydroxide sulfate)
neport hazard class(os)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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al provisions	274
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4·· - 	liquids. A package shall not weigh more than 30 kg. (gross mass)
proper shipping name er shipping name	corrosive liquid, acidic, inorganic, n.o.s. (aluminumchloride
	hydroxide sulfate)
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•	274
ed quantities	Combination packagings: not more than 5 liters per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
ritime transport in bulk according to IMO instruments	
x II of MARPOL 73/78	Not applicable, based on available data
TI/IATA DCD)	
•	
number	
umber	3264
proper shipping name	
er shipping name	corrosive liquid, acidic, inorganic, n.o.s. (aluminumchloride hydroxide sulfate)
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	Not applicable (inorganic)

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

European drinking water standards (98/83/EC and 2020/2184)

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Parameter	Parametric value	Note	Reference
Aluminium	200 μg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.
Chloride	250 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.
Sulphate	250 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.

REACH Annex XVII - Restriction

Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Reference legislation

See column 1: 3.

National legislation The Netherlands

OF TOTAL CITY			
Waterbezwaarlijkheid B (4); Algemene Beoordelingsmethodiek (ABM)			
aluminumchloride hydroxide sulfa	<u>ite</u>		
SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)	aluminiumverbindingen, oplosbaar; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 1B		
SZW - Lijst van voor de voortplanting giftige stoffen (borstvoeding)	aluminiumverbindingen, oplosbaar; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (borstvoeding)		

National legislation Germany SACHTOKLAR®

Lagerklasse (TRGS510) 12: Nicht brennbare Flüssigkeiten, die keiner der vorgenannten LGK zuzuordnen sind		12: Nicht brennbare Flüssigkeiten, die keiner der vorgenannten LGK zuzuordnen sind		
WGK 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017		1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017		
<u>al</u>	aluminumchloride hydroxide sulfate			
TA-Luft 5.2.1		5.2.1		

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H290 May be corrosive to metals. H319 Causes serious eye irritation.

(*) INTERNAL CLASSIFICATION BY BIG ADI Acceptable daily intake **AOEL** Acceptable operator exposure level

ATE **Acute Toxicity Estimate**

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level DNEL Derived No Effect Level EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 % Lethal Dose 50 % LD50

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic PNEC Predicted No Effect Concentration STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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country	Belgium	The Netherlands	South Africa	
phone number	+32 (0)56 77 69 44	+31 (0)78 65 44 944	+27 (0)21 0201800	
website	www.brenntag.be	www.brenntag.nl	www.brenntag.co.za	
e-mail	info@brenntag.be	info@brenntag.nl	info@brenntag.co.za	
activities	Distribution and export of chemicals and ingredients			
VAT number	BE0405317567	NL001375945B01	4740102209	
emergency number(24/365)	+32 (0)56 77 69 44	+31 (0)78 6544 944	+27 (0)21 0201800	
management systems: certifications	ISO 9001, ISO 14001, ISO 22000, FSSC 22000, GMP+ Feed, ESAD	ISO 9001, ISO 14001, ISO 22000, FSSC 22000, OHSAS 18001, GMP+ Feed, ESAD, AEO	ISO 9001, FSSC 22000	



